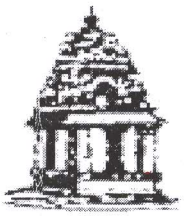


BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Maintenance of Ward and Emergency Works in Ward No. 11 (Kuvempunagara)(Balance Work of Ward Office Building), Vidyaranyapura Sub Division.*

Estimated Cost: Rs. 15.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Maintenance of Ward and Emergency Works in Ward No. 11 (Kuvempunagara)(Balance Work of Ward Office Building), Vidyaranyapura Sub Division.

					Estimate Cost Rs.				1500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **Page No. 5 / Item No. 2.4/ PWD SR 2013-14**	Cum							
	For Stair Case		1	1.20	1.20	0.90	1.30		
	Leveling of Ground		1	30.00	30.00	0.25	225.00		
							226.30	223.66	**50613.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	**223.66**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2013-14**	Cum							
	For Stair Case		1	1.00	1.20	0.15	0.18		
							0.18	4211.38	**758.00**
	Basic Rate	3973.00							
	Area Weightage @ 6%	238.38							
	Total	**4211.38**							
3	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size** graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3 lts confirming to IS 9103-1999 reaffirmed-2008 , machine mixed, floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2013-14**	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Stair Case								
	Bottom		1	1.20	1.20	0.45	0.65		
	Landing		1	2.40	2.00	0.15	0.72		
	First Flight		1	4.00	1.20	0.15	0.72		
	Second Flight		1	1.50	1.20	0.15	0.27		
	Steps		20x1/2	1.20	0.30	0.15	0.54		
	For Culvert Side Walls		2	30.00	0.20	0.90	10.80		
	Covering slab		1	30.00	1.50	0.30	13.50		
							27.20	5535.32	**150550.00**
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Total	**5535.32**							
4	KSRB 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46.2 / PWD SR 2013-14 TMT Bars Fe 500**	Qtl							
	For Sump 90 Kg/Cum		0.90	27.20			**24.48**	7312.94	**179008.00**
	Basic Rate	6899.00							
	Area Weightage @ 6%	413.94							
	Total	**7312.94**							
5	KSRB 4-6.11 : **Providing and removing centering**, shuttering, strutting, propping etc., and removal of form work **for stairs** (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification NO KBS 4.6.2 **Page No. 17/ Item No. 4.38/ PWD SR 2013-14**	Sqm							
	For Stair Case		1	4.00		1.20	4.80		
			1	1.50		1.20	1.80		
	For Culvert Side Walls		4	30.00		0.90	108.00		
			1	30.00		1.10	33.00		
							147.60	460.04	**67902.00**
	Basic Rate	434.00							
	Area Weightage @ 6%	26.04							
	Total	**460.04**							
6	KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 123 / Item No. 15.19 / PWD SR 2013-14 (Inside wall)**	Sqm							
	Stair Case								
	Landing		1	3.00		2.00	6.00		
	First Flight		1	4.00		1.20	4.80		
	Second Flight		1	1.50		1.20	1.80		
	Steps		20x1/2	1.20		0.30	3.60		
	Below Stair Case		1	3.00		3.00	9.00		
			1	4.00		1.20	4.80		
			1	1.50		1.20	1.80		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							31.80	199.28	**6337.00**
	Basic Rate	188.00							
	Area Weightage @ 6%	11.28							
	Total	**199.28**							
7	KSRB 14.10.1 : Flooring with 25mm to 40mm thick polished **tandur blue stone slabs** using mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. **Page No. 112 / Item No. 14.15 / PWD SR 2013-14**	Sqm							
	Stair Case								
	Landing		1	3.00	2.00		6.00		
	Steps		20	1.20	0.30		7.20		
							13.20	1017.60	**13432.00**
	Basic Rate	960.00							
	Area Weightage @ 6%	57.60							
	Total	**1017.60**							
8	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S. flats and square rods as per approved design, drawning including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 **PWD SR 2013-14 (P.37 / I.7.9)**	Kgs							
	Staircase		2	4.00			8.00		
			13			0.90	11.70		
			2	1.50			3.00		
			5			0.90	4.50		
							27.20		
	Weight /Sqm = 21 Kgs i.e 27.20 x 21= 571.20 Kgs		21	27.20			**571.20**	95.40	**54492.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW							
			1				**1**	1882.00	**1882.00**
10	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		1	50.00			**50.00**	306.00	**15300.00**
	50 to 100 m		1	50.00			**50.00**	400.00	**20000.00**
	100 to 150 m		1	50.00			**50.00**	445.00	**22250.00**
	150 to 200 m		1	50.00			**50.00**	470.00	**23500.00**
	200 to 250 m		1	50.00			**50.00**	544.00	**27200.00**
	250 to 300 m		1	50.00			**50.00**	583.00	**29150.00**
11	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr							
			1	70.00			**70.00**	1325.00	**92750.00**
12	Providing 250mm dia PVC Pipe 6kg/cm **SE PRED Approved Rate**	Rmtr							
			1	18.00			**18.00**	754.47	**13580.00**
13	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85**	Each							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1				**1**	100.00	**100.00**
14	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage. **PWD SR 2013-14 P. XXXXII Item No. 23 CRI Pumps**	No						
	12.5 HP 20 Stage		1				**1**	60084.36	**60084.00**
15	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008	Rmtr							
			1	280.00			**280.00**	375.00	**105000.00**
16	Heavy Duty Collar 50 mm dia	Nos	46				**46**	130.00	**5980.00**
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			1x2	285.00			**570.00**	151.00	**86070.00**
18	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) **(As per rate approved KUWS & DB for year 2008-09**	No							
			1				**1**	3000.00	**3000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 32/ I No. 2/f KPWD Electrical SR 2010-11**	Each							
			1				**1**	285.00	**285.00**
20	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**	Mtr							
			1	30.00			**30.00**	150.00	**4500.00**
21	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**	Mtr							
			1	30.00			**30.00**	8.00	**240.00**
22	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**	Mtr							
	For Cutting Road Surface		1	25.00			**25.00**	60.00	**1500.00**
23	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**	Mtr							
	40mm dia GI pipe		1	4.00			**4.00**	240.00	**960.00**
24	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**	No.							
	16Sqmm		1				**1.00**	260.00	**260.00**
25	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, **(P No.68, I No. 1) KPWD Electrical SR 2010-11**	No							
			1				**1**	1950.00	**1950.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
26	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	32 Amps		1x6				**6**	100.00	**600.00**
27	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 99 Item No. 13.55 / PWD SR 2012-13**	Nos							
			1				**1**	1114.06	**1114.00**
	Basic Rate	1051.00							
	Area Weightage @ 6%	63.06							
	Total	**1114.06**							
28	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 103 / I. No. 13.81.3 PWD SR 2012-13**	No							
	50mm dia		1				**1**	201.40	**201.00**
	Basic Rate	190.00							
	Area Weightage @ 6%	11.40							
	Total	**201.40**							
29	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete	No							
			1	4.00			**4**	80.00	**320.00**
30	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No							
			1				**1**	350.00	**350.00**
31	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No							
			1				**1**	1000.00	**1000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
32	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 41, I. No. 38B KPWD Electrical SR 2010-11**	Sq.Cm							
	16SWG		1x2	120.00	60.00		14400.00		
			1	360.00	25.00		9000.00		
							23400.00	0.33	**7722.00**
33	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter SERDED Rate**	No.							
			1				**1**	11000.00	**11000.00**
34	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	20.00	0.45	0.75	6.75		
							6.75	188.00	**1269.00**
	Basic Rate	188.00							
35	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	20.00			20.00		
							20.00	157.00	**3140.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
36	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 34				**6.75**	61.00	**412.00**
	Basic Rate	61.00							
37	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 97 / I.13.37 PWD SR - 2012-13**	Each							
			2				**2**	1582.58	**3165.00**
	Basic Rate	1493.00							
	Area Weightage @ 6%	89.58							
	Total	**1582.58**							
38	KSRB 11-18-1.1: Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour complete as per specifications. KBS 11.1.10 **Page No. 85 / Item No. 12.47 PWD SR 2013-14**	m							
			1	30.00			30.00		
							30.00	730.34	**21910.00**
	Basic Rate	689.00							
	Area Weightage @ 6%	41.34							
	Total	**730.34**							
39	KSRB 11-18-2.1: Providing and fixing sand cast iron soil waste bends 100mm dia with access door, insertion of rubber washers 3mm thick bolts and nut, with spun yarn soaked in cement Slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. **Page No. 86 / Item No. 12.50 PWD SR 2013-14**	Each							
			4				4		
							4	538.48	**2154.00**
	Basic Rate	508.00							
	Area Weightage @ 6%	30.48							
	Total	**538.48**							
40	Providing and supplying of Executive Extension Table- Celeon series of size 1810x422x952mm.(As per approved Data rate)	No.							
			3				**3**	57073.00	**171219.00**

Sl No	Description of item	Unit			B	D	Qty	Rate	Amount
41	Providing and supplying of executive High back Chair in Leatherite.(As per Approved Data rate)	No.							
			2				2	14430.00	28860.00
42	Providing and supplying of Cushion Chairs(As per approved Data rate)	No.							
			20				20	4160.00	83200.00
43	Neelkamal Plastic chairs	No.							
			25				25	900.00	22500.00
44	Compouter Set with Printer	No.							
			1				1	50000.00	50000.00
45	Almera	No.							
			2				2	13000.00	26000.00
46	Sub Total								1474769.00
47	For Third Party Inspection Charges @ 1%								14748.00
48	BESCOM Deposit	L/S							10000.00
49	Miscesalaneous Charges	L/S							483.00
								Total.	1500000.00

(Rupees Fifteen Lakhs Only)

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranayapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs. 15.00 lakhs
Rupees Fifteen lakhs only
Under ...

Technical Sanction for Rs. 15.00 lakhs
Fifteen Lakhs
P177
EE/BTP/03/14-15, 05/6/14
EE/BTP/03/14-15,
05/06/14

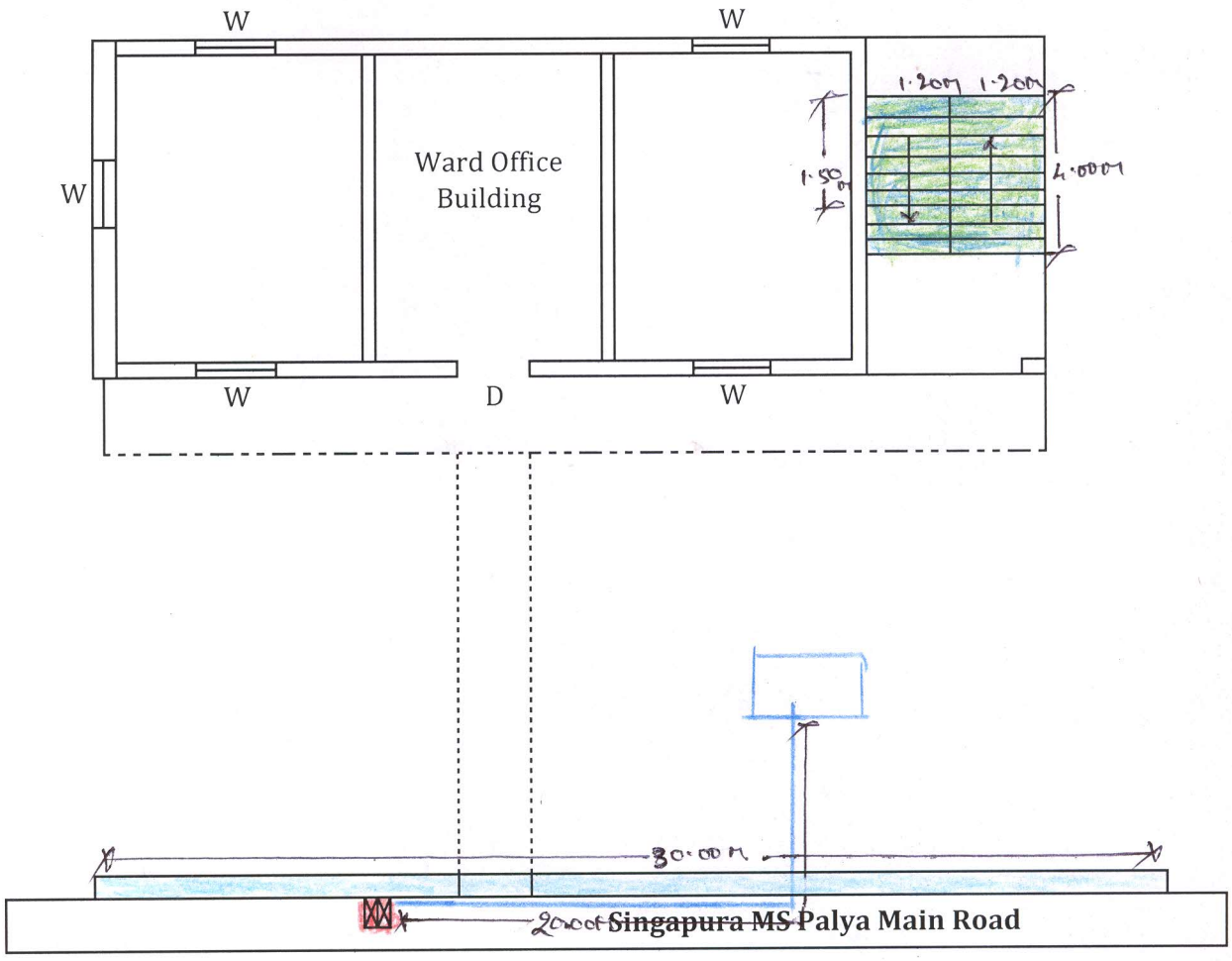
Ref ... Dated ... Subject ...
to ... No: ... Dr ...

Ref ... Sub ... enclosed ... Dt ...
Add Cmr/42/AS/984/14-15 dated 20-5-2014 Rs. 15.00 lakhs

Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

EE (BTP Div.)

Sketch for the Work of Maintenance of Ward and Emergency Works in Ward No. 11 (Kuvempunagara), (Balance Work of Ward Office Building), Vidyaranyapura Sub Division.



- Staircase
- Culvert Covering Slab
- Borewell
- Pipe Line

W-11

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97